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CLAIMS

- 1. A method for making microcomponents (76, 102) exhibiting microreliefs of an optical quality, in a substrate (62, 82, 92) comprising of:
- a first step for making the desired microrelief (70, 72, 74; 80, 82; 100) by mechanical machining of the substrate, and
- simultaneously with the first step or after the latter, a second step for cutting out the microcomponents in the substrate.
- 2. A method according to claim 1, the first mechanical machining step comprising at least two substeps: a first substep for blank-forming and a second substep for finishing.
- 3. A method according to claim 1 or 2, the first step further comprising a step for obtaining optical quality for the microrelief.
 - 4. A method according to any of claims 1 to 3, the microrelief being made with a single tool (68, 78) moved at the surface of the substrate.
 - 5. A method according to any of claims 1 to 3, the microrelief being made by several tools (88, 98) working simultaneously and/or in succession.
- 30 6. A method according to any of claims 1 to 5, the microrelief being made with a saw moved along one direction at a time.

- $\sqrt[n]{7}$. A method according to any of claims 1 to 5, the microcomponents being microprisms (80, 100).
- 8. A method according to claim 7, the microprisms being made by using a "V" profile abrasive blade (78).
 - 9. A method according to claim 6, the saw having a blade with plane and parallel faces, or having at least an inclined face.

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- 10. A method according to any of the preceding claims, the fix \mathfrak{A} step consisting of passing a blade without any abrastve grit in its die, this blade being used as carrier for a separate polishing abrasive distributed in the microreliefs.
 - 11. A method according to any of the preceding claims, the first step further comprising a surface chemical etching of the substrate.

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- 12. A method according to any of claims 1 to 10, the first step further \consisting of forming a planarizing coating on the substrate.
- 13. A method according to any of claims 1 to 7, 25 consisting of using a "U" shaped blade with the side parts comprising first abrasive grits and the end comprising second abrasive grits with a larger particle size than the former.

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